



U.S. Department of Transportation
Maritime Administration

U.S. Domestic Ocean Trades 2004



**U.S. Domestic Ocean Trades
2004**

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Contents

Preface	v
Notes and Sources	vii

Highlights	1
Domestic Ocean Trades	1
RO-RO/Container Trades	1
Tanker Trades	2
Barge Trades	2

Summary Tables	5
----------------------	---

Figures

(Highlights)

H-1. U.S. Domestic Ocean Trades by Vessel Type, 2000-2004	1
H-2. U.S. Domestic Ro-Ro/Container Trades, 2000-2004	1
H-3. U.S. Domestic Ocean Tanker Trades, 2000-2004	2
H-4. U.S. Domestic Ocean Barge Trades, 2000-2004	2

Tables

(Highlights)

H-1. U.S. Domestic Ocean Trades by Vessel Type, 2000 and 2004 (Metric Tons and Metric Ton-Miles	1
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(Summary)

S-1. U.S. Domestic Ocean Trades by Vessel Type and Commodity Group, 2000 and 2004, (Metric Tons)	5
S-2. U.S. Domestic Ocean Trades by Vessel Type and Commodity Group, 2000 and 2004, (Metric Ton-Miles)	6
S-3. U.S. Domestic Ocean Trades by Vessel Type and Commodity Group, 2000 and 2004, (Average Miles).....	7
S-4. U.S. Domestic Ocean Trade by Vessel Type, Contiguous and Non-Contiguous, 2000-2004, (Metric Tons)	8
S-5. U.S. Domestic Ocean Trades by Region, 2000-2004, (Metric Tons)	9
S-6. U.S. Domestic Ocean Tanker Trades by Region, 2000-2004, (Metric Tons)	10
S-7. U.S. Domestic Ocean Ro-Ro/Container Trades by Region, 2000-2004, (Metric Tons)	11
S-8. U.S. Domestic Ocean Dry Cargo Trades by Region, 2000-2004, (Metric Tons)	12
S-9. U.S. Domestic Ocean Tank Barge Trades by Region, 2000-2004, (Metric Tons) ...	13
S-10. U.S. Domestic Ocean Bulk Carrier Trades by Region, 2000-2004, (Metric Tons)..	14
S-11. Other U.S. Domestic Ocean Trades by Region, 2000-2004, (Metric Tons)	15

Preface

The following report contains data on U.S. domestic ocean traffic. The traffic is presented in metric tons and metric ton-miles for the following vessel types: tankers, ro-ro and container vessels, dry cargo barges, tank barges, bulk carriers, and other vessels.

The report is divided into two sections, Highlights and Summary Tables. The Highlights section includes selected time series (2000-2004) detailing traffic by vessel type. The Summary Tables section presents traffic by major commodity groups, contiguous and non-contiguous trades, and shipping and receiving coasts. The report is also available at www.marad.dot.gov/marad_statistics.

Comments and recommendations as to content and format of the report can be made at data.marad@marad.dot.gov. In addition, to learn more about the Maritime Administration or the maritime industry, visit the agency's website at www.marad.dot.gov.

Notes and Sources

Geography

North Atlantic:

Connecticut
Delaware
Maine
Maryland
Massachusetts
New Hampshire
New Jersey
New York
Pennsylvania
Rhode Island

South Atlantic:

Florida (Atlantic Ports)
Georgia
North Carolina
Puerto Rico
South Carolina
Virginia
U.S. Virgin Islands

United States Gulf:

Alabama
Florida (Gulf Ports)
Louisiana
Mississippi
Texas

Pacific Northwest:

Alaska
Oregon
Washington

Pacific Southwest:

California
Hawaii
U.S. Pacific Island Territories

Contiguous Trades: Shipments between the lower 48 states (mainland).

Non-Contiguous Trades: Includes Shipments between the Lower 48 States and Alaska, Puerto Rico and Virgin Islands, Hawaii, and U.S. Pacific Territories. Shipments between Hawaii and Alaska are included in Hawaii non-contiguous trades, and shipments between Hawaii and U.S. Pacific Territories are included in Pacific Territories non-contiguous trades.

Vessel Types

The vessel categories used for this report include the following types:

Tankers: Petroleum/Chemical Carrier, Chemical Carrier, Petroleum Tanker, Liquid Gas Carrier.

RO-RO/Container: RO-RO Vessel, Container Ship, Container/Vehicle/Trailer (RO-RO) Carrier.

Dry Cargo Barge: Open Dry Cargo Barge, Covered Dry Cargo Barge, RO-RO Barge, Open Hopper Barge, Covered Hopper Barge, Carfloat (Railroad Car Barge), Container Barge, Lash/Seebee Barge, Flat/Deck Barge, Convertible Barge.

Tank Barge: Tank Barge.

Bulk Carrier: Bulk Carrier.

Other Cargo: General Cargo Freighter, Crewboat/Supply/Utility Vessel, Combination Passenger & Cargo, Break Bulk/RO-RO Carrier, Ferry, Tugboat/Towboat.

Domestic Ocean Trades

Domestic ocean traffic is defined as domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, (e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, Alaska to Hawaii); and traffic between Great Lakes ports and seacoast ports, when having carriage over the ocean.

Sources

The domestic trade data in this report is from U.S. Army Corps of Engineers Waterborne Commerce detail files (see below). The sources listed below contain additional information related to domestic ocean trades. e.g., U.S. oil imports and U.S. coal production.

Energy Information Agency, Quarterly Coal Report, 3rd Quarter 2005, Wash., DC: U.S. Department of Energy, www.eia.doe.gov, December 2005. This source contains data on U.S. coal production and exports.
American Bureau of Shipping, Newly Classed Vessels, 2003-2005, American Bureau of Shipping, 2003-2005, www.eagle.org. This source contains

Notes and Sources

data on newly classed (constructed) tank vessels.

Energy Information Agency, Petroleum Supply Annual, 2004, Wash., DC: U.S. Department of Energy, www.eia.doe.gov, June 2005. This source contains data on U.S. petroleum production, imports and exports.

Energy Information Agency, Annual Energy Review, 2004, Wash., DC: U.S. Department of Energy, www.eia.doe.gov, June 2005. This source contains data on U.S. petroleum production by region and type.

Lloyd's Maritime Intelligence Unit, Vessel Movements Data Files, 2000 - 2004, London: Lloyd's Maritime Intelligence Unit, www.seasearcher.com, 2000-2004. This source contains data for vessel port calls, ports and active fleets.

Marine Log, Commercial Shipyard Contracts, www.marinelog.com, January 2006. This source contains data on commercial tank vessel orders at U.S. shipyards.

U.S. Army Corps of Engineers, Waterborne Commerce of the United States, 2000-2004, detail files, New Orleans: Waterborne Commerce Statistics Center, www.iwr.usace.army.mil/ndc, 2000-2004. These sources contains detailed data for U.S. foreign and domestic waterborne trade by commodity group and vessel type. They also contain information on the vessels engaged in these trades.

U.S. Army Corps of Engineers, Waterborne Commerce of the United States, 2000-2004, Part 5, National Summaries, New Orleans: Waterborne Commerce Statistics Center, www.iwr.usace.army.mil/ndc, 2000-2004. This source contains summaries of data for U.S. foreign and domestic water borne trade by commodity group and type of traffic.

U.S. Geological Survey, Mineral Commodities Summary, Phosphate Rock, 2004, Reston, VA: U.S. Geological Survey, U.S. Department of Interior, www.usgs.gov, 2005. This source

contains data on U.S. phosphate rock production, imports, and exports.

U.S. Maritime Administration, Industry Survey Series: Coastal Tank Barge, 2002, Wash., DC: U.S.

Maritime Administration, www.marad.dot.gov/marad_statistics, This source contains a summary of views of major coastwise tank barge operators regarding coastal tank barge markets.

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Photographs shown on the cover viewed clockwise beginning from the top left and ending in the bottom left, are courtesy of Bouchard Transportation Co., Matson Navigation Company, Crowley Marine Services, and Cashman Equipment Corp.

Highlights

Domestic Ocean Trades

In 2004, U.S. domestic ocean trades amounted to 200 million metric tons (Figure H-1 and Table S-1). Of this, 48 percent was moved by tankers, 29 percent was moved by tank barges, 18 percent was by moved dry cargo barges and 4 percent was moved by ro-ro's and containerships. Bulk Carriers accounted for just 1 percent of the trades. Overall, the trades have fallen by 6 million metric tons over the last four years, reflecting declines in tanker, dry bulk carrier and ro-ro/container trades. Tank barge trades increased over the period.

In terms of metric ton-miles, the trades fell by 1.4 percent over the last 4 years, a 3 percent decline in metric tons, but a 2 percent increase in average shipment miles (Tables H-1, S-1, S2 and S3).

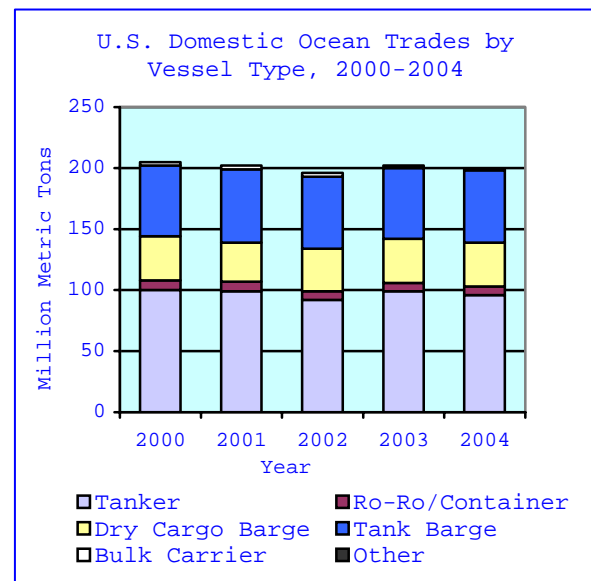


Figure H-1

Ro-Ro/Container Trades

The domestic ro-ro/container trades consist of four non-contiguous trades; Mainland (lower 48 states)/Alaska, Mainland/Hawaii, Mainland/Puerto Rico, and U.S. Pacific Territories; and contiguous (intracoastal) trades which are an adjunct to non-contiguous services. In 2004, the non-contiguous ro-ro/container trades amounted to 7 million metric tons. Of this, 47 percent was in the Hawaii trades, 29 percent was in the Puerto Rico trades and 22 percent was in the Alaska trades (Figure H-2 and Table S-3).

Over the last four years, ro-ro/container traffic has fallen by 7.4 percent (595,000 metric tons). The decline was largely in the mainland/Puerto Rico segment (down 30

U.S. Domestic Ocean Trades by Vessel Type, 2000 and 2004				
(Million Metric Tons, MT) (Billion Metric Ton-Miles, MTM)				
	2000		2004	
	MT	MTM	MT	MTM
Tanker	100	174	96	172
Ro-Ro/Container	8	19	7	18
Dry Cargo Barge	36	23	36	23
Tank Barge	58	38	59	38
Bulk Carrier	3	2	1	2
Other	-	2	-	2
Total	206	258	200	254

Table H-1

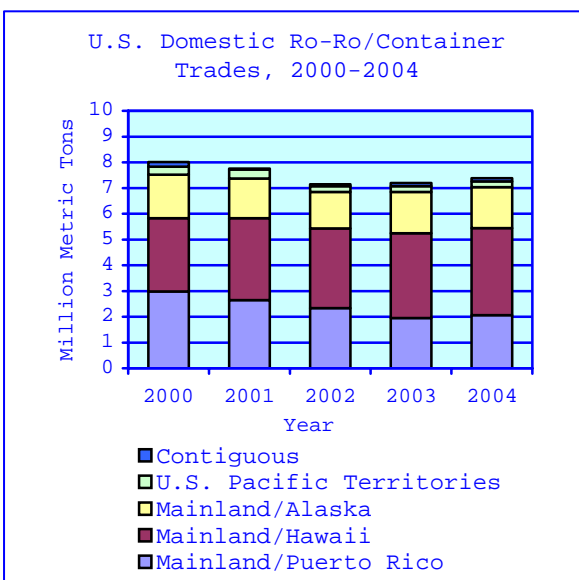


Figure H-2

Highlights

percent).

Tanker Trades

In 2004, domestic tanker trades amounted to 96 million metric tons. Of this, 50 percent was petroleum products, 45 percent was crude oil, and 5 percent was chemicals. (Figure H-3).

Domestic tanker trades have fallen by 4 million metric tons over the last four years. Over this period, petroleum product shipments fell by 3 million metric tons, reflecting import substitution.

Average shipment miles increased by 2 percent reflecting an increase in noncontiguous shipments from the Virgin Islands to U.S. Gulf. (Tables S-1, S-2, S-3 and S-6).

While domestic tanker trades have declined by 4 percent over the last four years, tanker imports, a substitute for domestic shipments, increased by 15 percent (Figure H-4). In 2004, imports were 6.6 times domestic shipments, up from 5.5 times in 2000.

Barge Trades

Tank barge shipments (metric tons) were up slightly (1.4 percent) over the last four years while average shipment miles declined by 0.6 percent (Figure H-5 and Table S-1). The tank barge share of the tank vessel (tanker and tank barge) petroleum product and chemical shipments increased from 49 percent in 2000 to 52 percent in 2004. The increase is in accord with the expectations of major tank barge operators. (U.S. Maritime Administration, Industry Survey Series: Coastal Tank Barge, 2002, pp.3 and 5). Seventy percent of the respondents planned to invest in new tank barges and expected the tank barge share of coastal tank vessel shipments to rise from 2002 to 2005. Coastwise tank barge operators took delivery of 41 new/reconstructed barges from 2003 to 2005, and have ordered another 35 barges for delivery in 2006 and 2007 (American Bureau of Shipping, Newly Classed Vessels, 2003-2005; and Marine Log, Commercial Shipyard Contracts, January 2006).

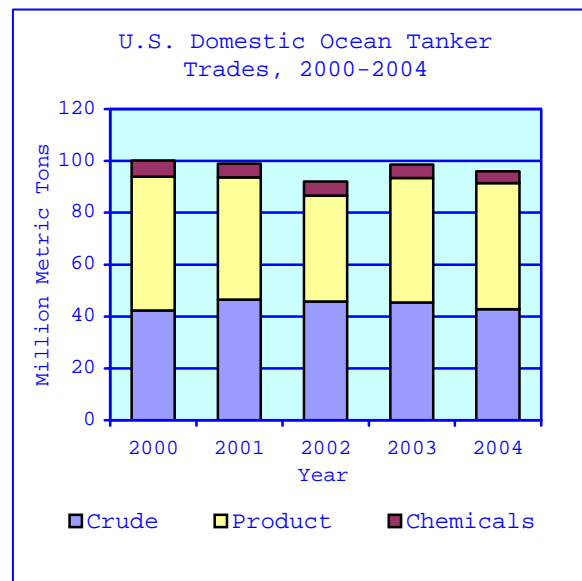


Figure H-3

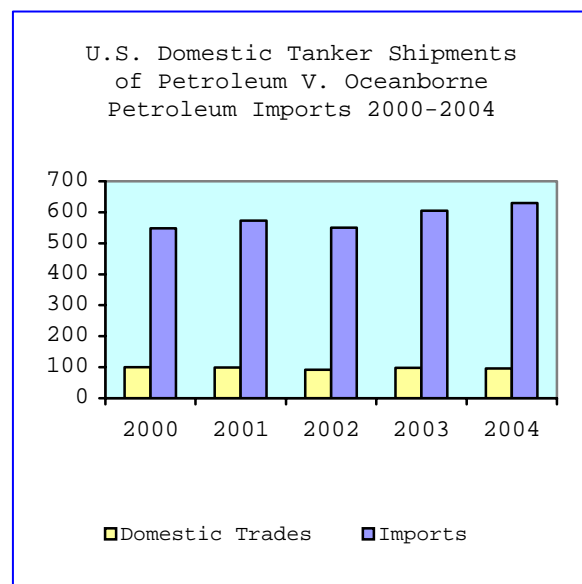


Figure H-4

Highlights

Dry cargo barge traffic fell by 1 percent over the last four years. The slight decline reflects a decline in shipments of coal, which was countered, but not fully, by increases in shipments of farm products and manufactures (Figure H-5 and Table S-1).

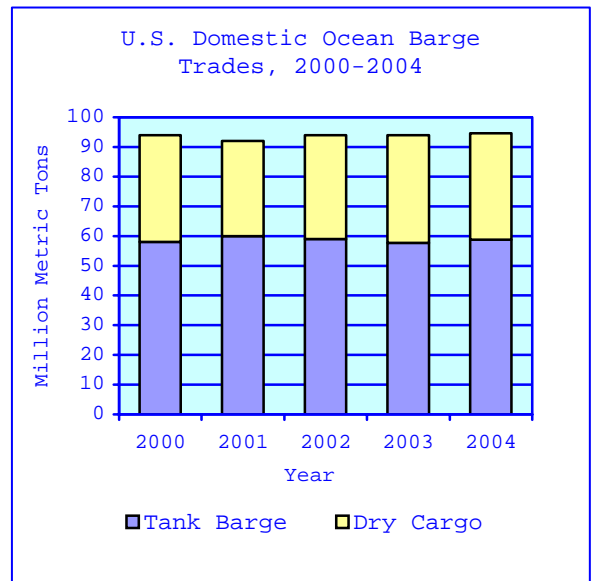


Figure H-5

Summary Tables

U.S. Domestic Ocean Trades By Vessel Type and Commodity Group, 2000 and 2004							
(Thousand Metric Tons)							
Year/Commodity Group	Tanker	Ro-Ro Container	Dry Cargo Barge	Tank Barge	Bulk Carrier	Other	Total
2000							
Coal	0	0	10,640	0	2,469	0	13,109
Petroleum	93,981	40	869	53,193	0	5	148,088
Crude	42,340	0	0	891	0	0	43,231
Chemicals	6,281	389	1,731	4,077	0	1	12,479
Crude Materials	0	191	11,823	519	0	13	12,546
Phosphate Rock	0	0	3,100	0	0	0	3,100
Farm Products	7	1,876	2,569	254	280	287	5,273
Prim. Mfgs.	0	418	6,052	4	31	21	6,526
Manufactures	0	5,053	2,659	57	0	53	7,822
Other	0	38	0	0	0	0	38
Total	100,269	8,005	36,343	58,104	2,780	380	205,881
2004							
Coal	0	0	8,174	31	754	0	8,959
Petroleum	91,442	34	857	53,713	256	0	146,302
Crude	42,802	0	0	734	0	0	43,536
Chemicals	4,534	136	1,086	4,569	93	0	10,418
Crude Materials	0	169	11,505	261	0	5	11,940
Phosphate Rock	0	0	3,199	0	0	0	3,199
Farm Products	0	1,736	2,643	303	207	215	5,104
Prim. Mfgs.	0	254	7,957	0	0	10	8,221
Manufactures	0	5,048	3,595	11	0	86	8,740
Other	0	31	15	0	0	34	81
Total	95,976	7,408	35,832	58,888	1,310	350	199,765

Table S-1

Summary Tables

U.S. Domestic Ocean Trades By Vessel Type and Commodity Group, 2000 and 2004							
(Million Metric Ton-Miles)							
Year/Commodity Group	Tanker	Ro-Ro Container	Dry Cargo Barge	Tank Barge	Bulk Carrier	Other	Total
2000							
Coal	0	0	7,238	0	1,275	0	8,513
Petroleum	158,183	90	944	30,187	0	1	189,405
Crude	78,554	0	0	0	0	0	78,823
Chemicals	16,289	734	1,562	6,293	0	1	24,881
Crude Materials	0	578	5,967	375	0	22	6,943
Phosphate Rock	0	0	2,782	0	0	0	2,781
Farm Products	2	4,605	2,726	233	904	1,406	3,580
Prim. Mfgs.	0	1,074	2,353	7	100	45	9,876
Manufactures	0	11,883	2,287	46	0	36	14,252
Other	0	78	0	0	0	0	79
Total	174,474	19,042	23,078	37,142	2,280	1,512	257,528
2004							
Coal	0	0	5,482	26	433	0	5,942
Petroleum	161,948	89	912	31,076	527	0	194,551
Crude	76,423	0	0	312	0	0	76,735
Chemicals	9,908	356	1,003	6,098	141	1	17,508
Crude Materials	0	527	6,086	177	0	11	6,801
Phosphate Rock	0	0	2,792	0	0	0	2,792
Farm Products	0	4,702	2,967	389	678	1,128	9,864
Prim. Mfgs.	0	615	3,222	0	0	23	3,860
Manufactures	0	11,941	2,901	10	0	211	15,063
Other	0	82	3	0	0	139	223
Total	171,856	18,312	22,576	37,777	1,779	1,513	253,812

Table S-2

Summary Tables

U.S. Domestic Ocean Trades By Vessel Type and Commodity Group, 2000 and 2004							
(Average Miles)							
Year/Commodity Group	Tanker	Ro-Ro Container	Dry Cargo Barge	Tank Barge	Bulk Carrier	Other	Total
2000							
Coal	0	0	680	0	517	0	649
Petroleum	1,683	2,264	1,086	568	0	249	1,279
Crude	1,855	0	0	302	0	0	1,823
Chemicals	2,593	1,886	902	1,544	0	1,907	1,994
Crude Materials	0	3,027	505	724	0	1,706	553
Phosphate Rock	0	0	897	0	0	0	897
Farm Products	212	2,455	1,061	916	3,232	4,896	1,873
Prim. Mfgs.	0	2,572	389	1,706	3,232	2,116	548
Manufactures	0	2,352	860	806	0	678	1,822
Other	0	2,030	0	0	0	0	2,030
All Commodities	1,740	2,379	635	639	820	3,974	1,251
2004							
Coal	0	0	671	839	574	0	663
Petroleum	1,771	2,618	1,064	579	2,059	0	1,330
Crude	1,786	0	0	425	0	0	1,763
Chemicals	2,185	2,618	924	1,335	1,516	0	1,681
Crude Materials	0	3,118	529	678	0	2,200	570
Phosphate Rock	0	0	873	0	0	0	873
Farm Products	0	2,709	1,123	1,284	3,275	5,247	1,933
Prim. Mfgs.	0	2,421	405	0	0	2,300	470
Manufactures	0	2,365	807	909	0	2,453	1,723
Other	0	2,645	200	0	0	4,088	2,788
All Commodities	1,791	2,472	630	642	1,358	4,323	1,271

Table S-3

Summary Tables

U.S. Domestic Ocean Trades, Contiguous/Non-Contiguous by Vessel Type, 2000-2004					
(Thousand Metric Tons)					
Vessel Type/Trade	2000	2001	2002	2003	2004
Tanker	100,269	93,967	92,021	98,522	95,976
Contiguous	40,960	38,180	33,633	35,636	35,151
Non-Contiguous	59,309	60,782	58,387	62,886	60,825
Alaska	40,576	44,020	43,583	43,154	42,238
Hawaii	2,189	2,489	2,296	1,773	170
Puerto Rico and Virgin Islands	16,497	14,273	12,458	17,959	18,416
U.S. Pacific Territories	47	0	50	0	0
Ro-Ro/Container	8,004	7,744	7,132	7,186	7,409
Contiguous	177	36	69	115	124
Non-Contiguous	7,828	7,708	7,062	7,071	7,285
Alaska	1,693	1,545	1,406	1,599	1,589
Hawaii	2,850	3,186	3,097	3,293	3,379
Puerto Rico and Virgin Islands	2,980	2,642	2,331	1,953	2,091
U.S. Pacific Territories	305	335	228	225	226
Dry Cargo Barge	36,344	32,476	35,327	36,330	35,832
Contiguous	33,726	30,340	33,079	33,315	32,441
Non-Contiguous	2,617	2,137	2,248	3,016	3,392
Alaska	509	332	367	334	293
Hawaii	216	185	118	261	275
Puerto Rico and Virgin Islands	1,871	1,596	1,738	2,377	2,800
U.S. Pacific Territories	21	24	25	44	25
Tank Barge	58,103	60,088	58,508	57,730	58,889
Contiguous	57,676	59,772	58,244	57,282	58,595
Non-Contiguous	428	316	264	448	294
Alaska	198	116	84	82	104
Hawaii	10	0	0	17	22
Puerto Rico and Virgin Islands	216	200	180	349	168
U.S. Pacific Territories	4	0	0	0	0
Dry Bulk Carrier	2,780	3,434	2,924	1,674	1,310
Contiguous	2,469	3,261	2,924	1,643	1,103
Non-Contiguous	311	173	0	31	207
Alaska	0	0	0	0	0
Hawaii	311	173	0	31	207
Puerto Rico and Virgin Islands	0	0	0	0	0
U.S. Pacific Territories	0	0	0	0	0
Other	380	152	404	422	350
Contiguous	57	77	73	53	60
Non-contiguous	323	76	331	368	291
Alaska	98	76	66	71	43
Hawaii	1	0	0	1	0
Puerto Rico and Virgin Islands	1	0	2	0	0
U.S. Pacific Territories	224	0	263	296	248
Total	205,881	202,857	196,317	201,864	199,766
Contiguous	135,066	131,666	128,024	128,046	127,472
Non-contiguous	70,814	71,191	68,292	73,819	72,294
Alaska	43,074	46,088	45,505	45,240	44,266
Hawaii	5,576	6,033	5,511	5,375	4,054
Puerto Rico and Virgin Islands	21,564	18,711	16,709	22,638	23,475
U.S. Pacific Territories	600	359	567	566	498

Table S-4

Summary Tables

U.S. Domestic Ocean Trades, 2000-2004						
(Thousand Metric Tons)						
Receiving Coast						
Year/ Shipping Coast	North Atlantic	South Atlantic	U.S. Gulf	Pacific Northwest	Pacific Southwest	Total
2000						
North Atlantic	34,882	1,687	1,345	0	0	37,914
South Atlantic	15,222	8,936	1,232	24	488	25,901
U.S. Gulf	5,903	21,723	39,718	127	1,444	68,915
Pacific Northwest	0	24	173	29,475	25,958	55,629
Pacific Southwest	4	35	313	2,532	14,637	17,521
Total	56,010	32,405	42,781	32,157	42,527	205,881
2001						
North Atlantic	34,793	1,899	950	0	0	37,642
South Atlantic	14,638	7,798	1,412	34	424	24,307
U.S. Gulf	5,063	20,000	37,574	70	1,322	64,029
Pacific Northwest	1	14	129	30,848	27,582	58,573
Pacific Southwest	0	23	246	2,571	15,465	18,306
Total	54,495	29,735	40,311	33,523	44,793	202,857
2002						
North Atlantic	33,844	1,879	1,258	0	0	36,981
South Atlantic	11,671	7,699	1,591	0	150	21,111
U.S. Gulf	4,628	19,118	38,872	36	1,139	63,793
Pacific Northwest	0	84	161	29,124	26,516	55,885
Pacific Southwest	6	0	146	2,482	15,913	18,547
Total	50,149	28,781	42,027	31,642	43,718	196,317
2003						
North Atlantic	33,108	1,679	969	0	0	35,756
South Atlantic	13,069	8,897	2,930	0	169	25,065
U.S. Gulf	4,606	20,474	37,686	55	1,076	63,897
Pacific Northwest	0	57	122	28,285	27,128	55,592
Pacific Southwest	0	61	426	2,260	18,808	21,555
Total	50,783	31,168	42,133	30,600	47,181	201,864
2004						
North Atlantic	34,491	2,032	1,237	0	0	37,761
South Atlantic	11,788	9,476	3,183	0	1,579	26,026
U.S. Gulf	4,148	18,375	36,086	96	1,531	60,236
Pacific Northwest	0	31	70	28,407	25,777	54,284
Pacific Southwest	0	7	464	2,398	18,591	21,460
Total	50,427	29,921	41,041	30,900	47,477	199,766

Table S-5

Summary Tables

U.S. Domestic Ocean Tanker Trades, 2000-2004						
(Thousand Metric Tons)						
Year/ Shipping Coast	Receiving Coast					Total
	North Atlantic	South Atlantic	U.S. Gulf	Pacific Northwest	Pacific Southwest	
2000						
North Atlantic	1,002	122	865	0	0	1,988
South Atlantic	9,712	5,188	941	24	487	16,353
U.S. Gulf	4,853	13,617	9,937	127	1,444	29,978
Pacific Northwest	0	24	171	24,239	24,094	48,528
Alaska	0	0	0	20,490	21,878	42,367
Pacific Southwest	0	35	313	1,738	1,336	3,422
Total	15,568	18,986	12,227	26,128	27,361	100,269
2001						
North Atlantic	783	250	715	0	0	1,748
South Atlantic	8,863	4,268	1,047	34	424	14,636
U.S. Gulf	4,449	11,210	10,474	70	1,302	27,506
Pacific Northwest	0	14	129	25,206	25,475	50,825
Alaska	0	0	37	23,609	22,841	46,486
Pacific Southwest	0	23	246	1,881	2,098	4,248
Total	14,095	15,765	12,611	27,191	29,300	98,962
2002						
North Atlantic	911	162	981	0	0	2,054
South Atlantic	6,530	4,095	1,347	0	150	12,122
U.S. Gulf	3,806	11,048	9,181	36	1,124	25,195
Pacific Northwest	0	84	128	24,287	24,569	49,068
Alaska	0	0	0	23,741	22,507	46,249
Pacific Southwest	0	0	130	1,756	1,696	3,582
Total	11,248	15,389	11,766	26,079	27,539	92,021
2003						
North Atlantic	971	116	746	0	0	1,833
South Atlantic	9,780	5,449	2,346	0	169	17,744
U.S. Gulf	3,430	11,434	10,584	55	1,076	26,579
Pacific Northwest	0	57	122	23,490	24,586	48,255
Alaska	0	0	0	23,440	22,070	45,510
Pacific Southwest	0	61	310	1,522	2,219	4,112
Total	14,181	17,117	14,108	25,066	28,050	98,522
2004						
North Atlantic	611	114	731	0	0	1,456
South Atlantic	8,512	5,411	2,729	0	1,579	18,230
U.S. Gulf	3,095	10,916	10,918	96	1,528	26,551
Pacific Northwest	0	23	70	23,264	22,563	45,919
Alaska	0	0	0	22,947	20,216	43,163
Pacific Southwest	0	7	420	1,471	1,921	3,820
Total	12,217	16,471	14,867	24,830	27,590	95,976

Table S-6

Summary Tables

U.S. Domestic Ocean Ro-Ro/Container Trades, 2000-2004						
(Thousand Metric Tons)						
Year/ Shipping Coast	Receiving Coast					Total
	North Atlantic	South Atlantic	U.S. Gulf	Pacific Northwest	Pacific Southwest	
2000						
North Atlantic	0	582	0	0	0	582
South Atlantic	203	1,735	89	0	0	2,027
U.S. Gulf	0	371	0	0	0	371
Pacific Northwest	0	0	0	1,693	588	2,281
Pacific Southwest	0	0	0	166	2,577	2,743
Total	203	2,688	89	1,859	3,165	8,004
2001						
North Atlantic	0	506	0	0	0	506
South Atlantic	152	1,695	66	0	0	1,913
U.S. Gulf	0	223	0	0	0	223
Pacific Northwest	0	0	0	1,559	610	2,169
Pacific Southwest	0	0	0	89	2,843	2,932
Total	152	2,424	66	1,648	3,454	7,744
2002						
North Atlantic	0	297	0	0	0	297
South Atlantic	86	1,686	37	0	0	1,809
U.S. Gulf	0	226	0	0	0	226
Pacific Northwest	0	0	0	1,438	586	2,024
Pacific Southwest	0	0	0	90	2,687	2,777
Total	86	2,208	37	1,528	3,273	7,132
2003						
North Atlantic	0	196	0	0	0	196
South Atlantic	53	1,439	40	0	0	1,532
U.S. Gulf	0	226	0	0	0	226
Pacific Northwest	0	0	0	1,632	606	2,238
Pacific Southwest	0	0	0	106	2,889	2,995
Total	53	1,861	40	1,738	3,495	7,187
2004						
North Atlantic	0	215	0	0	0	215
South Atlantic	42	1,598	46	0	0	1,687
U.S. Gulf	0	190	0	0	0	190
Pacific Northwest	0	0	0	1,627	633	2,260
Pacific Southwest	0	0	0	109	2,948	3,058
Total	42	2,002	46	1,736	3,581	7,409

Table S-7

Summary Tables

U.S. Domestic Ocean Dry Cargo Barge Trades, 2000-2004						
(Thousand Metric Tons)						
Year/ Shipping Coast	Receiving Coast					Total
	North Atlantic	South Atlantic	U.S. Gulf	Pacific Northwest	Pacific Southwest	
2000						
North Atlantic	6,308	678	89	0	0	7,075
South Atlantic	2,240	1,386	81	0	0	3,707
U.S. Gulf	95	802	15,252	0	1	16,150
Pacific Northwest	0	0	1	1,741	663	2,405
Pacific Southwest	0	0	0	50	6,956	7,006
Total	8,643	2,866	15,424	1,791	7,620	36,344
2001						
North Atlantic	6,958	561	0	0	0	7,519
South Atlantic	2,332	1,308	69	0	0	3,709
U.S. Gulf	116	883	11,312	0	0	12,312
Pacific Northwest	0	0	0	1,506	664	2,170
Pacific Southwest	0	0	0	50	6,718	6,768
Total	9,406	2,752	11,381	1,555	7,382	32,476
2002						
North Atlantic	6,684	809	0	0	0	7,492
South Atlantic	2,245	1,267	15	0	0	3,527
U.S. Gulf	28	637	13,911	0	0	14,576
Pacific Northwest	0	0	0	1,167	680	1,848
Pacific Southwest	0	0	2	78	7,805	7,884
Total	8,956	2,713	13,928	1,245	8,485	35,327
2003						
North Atlantic	6,008	880	31	0	0	6,919
South Atlantic	1,748	1,415	128	0	0	3,291
U.S. Gulf	7	995	13,768	0	0	14,770
Pacific Northwest	0	0	0	1,171	877	2,048
Pacific Southwest	0	0	60	81	9,161	9,302
Total	7,763	3,290	13,987	1,252	10,038	36,330
2004						
North Atlantic	6,010	906	208	0	0	7,125
South Atlantic	2,253	2,001	105	0	0	4,359
U.S. Gulf	11	1,035	12,653	0	0	13,699
Pacific Northwest	0	0	0	994	949	1,943
Pacific Southwest	0	0	0	48	8,660	8,707
Total	8,275	4,150	12,758	1,041	9,609	35,833

Table S-8

Summary Tables

U.S. Domestic Ocean Tank Barge Trades, 2000-2004						
(Thousand Metric Tons)						
Year/ Shipping Coast	Receiving Coast					Total
	North Atlantic	South Atlantic	U.S. Gulf	Pacific Northwest	Pacific Southwest	
2000						
North Atlantic	27,562	305	391	0	0	28,258
South Atlantic	701	626	121	0	0	1,449
U.S. Gulf	955	6,933	14,417	0	0	22,304
Pacific Northwest	0	0	0	1,695	613	2,308
Pacific Southwest	0	0	0	577	3,208	3,784
Total	28,217	7,864	14,930	2,272	3,820	58,103
2001						
North Atlantic	26,239	612	277	0	0	27,128
South Atlantic	915	652	159	0	0	1,726
U.S. Gulf	794	7,016	14,983	0	15	22,809
Pacific Northwest	0	0	0	2,163	680	2,843
Pacific Southwest	0	0	0	558	3,444	4,002
Total	27,948	8,280	15,420	2,721	4,139	58,508
2002						
North Atlantic	26,114	488	192	0	0	26,794
South Atlantic	786	594	324	0	0	1,704
U.S. Gulf	1,132	7,503	12,870	0	0	21,505
Pacific Northwest	0	0	0	1,917	1,057	2,974
Pacific Southwest	0	0	0	545	4,208	4,753
Total	28,032	8,585	13,386	2,462	5,265	57,730
2003						
North Atlantic	26,114	488	192	0	0	26,794
South Atlantic	786	594	324	0	0	1,704
U.S. Gulf	1,132	7,503	12,870	0	0	21,505
Pacific Northwest	0	0	0	1,917	1,057	2,974
Pacific Southwest	0	0	0	545	4,208	4,753
Total	28,032	8,585	13,386	2,462	5,265	57,730
2004						
North Atlantic	27,474	368	727	0	0	28,569
South Atlantic	700	466	242	0	0	1,409
U.S. Gulf	1,043	6,032	12,352	0	3	19,430
Pacific Northwest	0	8	0	2,479	1,612	4,099
Pacific Southwest	0	0	0	762	4,619	5,382
Total	29,217	7,095	13,100	3,242	6,235	58,889

Table S-9

Summary Tables

U.S. Domestic Ocean Bulk Carrier Trades, 2000-2004						
(Thousand Metric Tons)						
Year/ Shipping Coast	Receiving Coast					Total
	North Atlantic	South Atlantic	U.S. Gulf	Pacific Northwest	Pacific Southwest	
2000						
North Atlantic	0	0	0	0	0	0
South Atlantic	2,366	0	0	0	0	2,366
U.S. Gulf	0	0	103	0	0	103
Pacific Northwest	0	0	0	0	0	0
Pacific Southwest	0	0	0	0	311	311
Total	2,366	0	103	0	311	2,780
2001						
North Atlantic	0	0	0	0	0	0
South Atlantic	2,391	0	0	0	0	2,391
U.S. Gulf	0	209	661	0	0	870
Pacific Northwest	0	0	0	0	20	20
Pacific Southwest	0	0	0	0	153	153
Total	2,391	209	661	0	173	3,434
2002						
North Atlantic	0	0	0	0	0	0
South Atlantic	1,894	0	32	0	0	1,926
U.S. Gulf	0	188	777	0	0	965
Pacific Northwest	0	0	33	0	0	33
Pacific Southwest	0	0	0	0	0	0
Total	1,894	188	842	0	0	2,924
2003						
North Atlantic	0	0	0	0	0	0
South Atlantic	703	0	92	0	0	795
U.S. Gulf	36	316	462	0	0	814
Pacific Northwest	0	0	0	0	0	0
Pacific Southwest	0	0	34	0	31	65
Total	739	316	588	0	31	1,674
2004						
North Atlantic	390	0	0	0	0	390
South Atlantic	280	202	60	0	0	340
U.S. Gulf	0	0	144	0	0	346
Pacific Northwest	0	0	0	0	20	20
Pacific Southwest	0	0	26	0	187	213
Total	670	202	231	0	207	1,310

Table S-10

Summary Tables

Other U.S. Domestic Ocean Trades, 2000-2004						
(Thousand Metric Tons)						
Year/ Shipping Coast	Receiving Coast					Total
	North Atlantic	South Atlantic	U.S. Gulf	Pacific Northwest	Pacific Southwest	
2000						
North Atlantic	10	0	0	0	0	10
South Atlantic	0	0	0	0	0	0
U.S. Gulf	0	1	8	0	0	9
Pacific Northwest	0	0	0	106	0	106
Pacific Southwest	4	0	0	1	250	255
Total	14	1	8	107	250	380
2001						
North Atlantic	14	0	0	0	0	14
South Atlantic	0	0	0	0	0	0
U.S. Gulf	0	0	11	0	0	11
Pacific Northwest	1	0	0	86	0	87
Pacific Southwest	0	0	0	0	41	41
Total	15	0	11	86	41	153
2002						
North Atlantic	10	0	0	0	0	10
South Atlantic	0	0	0	0	0	0
U.S. Gulf	0	2	20	0	0	22
Pacific Northwest	0	0	0	69	1	70
Pacific Southwest	6	0	14	1	281	302
Total	16	2	34	70	282	404
2003						
North Atlantic	16	0	0	0	0	16
South Atlantic	0	0	0	0	0	0
U.S. Gulf	0	0	2	0	0	2
Pacific Northwest	0	0	0	74	2	76
Pacific Southwest	0	0	22	7	299	328
Total	16	0	24	81	301	422
2004						
North Atlantic	6	0	0	0	0	6
South Atlantic	0	0	0	0	0	0
U.S. Gulf	0	0	20	0	0	20
Pacific Northwest	0	0	0	43	0	43
Pacific Southwest	0	0	18	8	255	281
Total	6	0	38	51	255	350

Table S-11